List of Contents

NUMBER 1

- i Softstrip® data strip containing the table of contents of this issue
- LeRoy F. Simmons and **Laurette Poulos**
- 1 DSS: the successful implementation of a mathematical programming model for strategic planning

Vernon Rego

- 7 Characterizations of equilibrium queue length distributions in M/GI/1 queues
- Andrew Reibman and **Kishor Trivedi**
- 19 Numerical transient analysis of Markov models
- R. Armstrong, A. Charnes and C. Haksever
- 37 Implementation of successive linear programming algorithms for non-convex goal programming
- Konstantinos P. Triantis and Csaba J. Egyhazy
- 51 An integer programming formulation embedded in an algorithm for query processing optimization in distributed relational database systems
- Rajan Batta and Udatta S. Palekar
- 61 Mixed planar/network facility location problems
- Hanif D. Sherali and Allen L. Soyster
- 69 Convergence analysis and algorithmic implications of two dynamic processes toward an oligopolycompetitive fringe equilibrium solution

R. K. Ahuja

83 Minimum cost-reliability ratio path problem

NUMBER 2

i Softstrip® data strip containing the table of contents of this issue

T. C. E. Cheng

- 91 Optimal common due-date with limited completion time deviation
- Sang M. Lee and Richard L. Luebbe
- 97 A comparison of a constraint aggregation and partitioning zero-one goal programming algorithm with the Lee and Morris algorithm
- Rex K. Kincaid. Timothy J. Lowe and Thomas L. Morin
- 103 The location of central structures in trees
- Francis J. Vasko and Floyd E. Wolf
- 115 Solving large set covering problems on a personal computer
- Jacob W. Ulvila and Bryan B. Thompson
- 123 A computerized risk analysis aid
- Moshe Kress
- Wade D. Cook, igal Golan and 135 Heuristics for ranking players in a round robin tournament

Mufit Ozden 145 A solution procedure for general knapsack problems with a few constraints Laoucine Kerbache and 157 Asymptotic behavior of the expansion method for J. MacGregor Smith open finite queueing networks Nicholas G. Hall. 171 Bin packing problems in one dimension: heuristic solutions and confidence intervals Soumen Ghosh. Roland D. Kankey. Sridhar Narasimhan and WanSoo T. Rhee R. K. Arora and R. K. Sachdeva 179 Distributed simulation of activity networks Rasaratnam Logendran and 189 Uncapacitated plant location-allocation problems M. Palmer Terrell with price sensitive stochastic demands NUMBER 3 i Softstrip® data strip containing the table of contents of this issue R. A. Wattenbarger, 199 Estimating gas-in-place in aguifer-driven reservoirs R. A. Startzman and R. J. Gajdica Kathleen A. Woolston and 207 The design of centralized networks with reliability and Susan L. Albin availability constraints Jacques Desrosiers, 219 Vehicle routing with full loads Gilbert Laporte, Michel Sauvé. François Soumis and Serge Taillefer Layek L. Abdel-Malek and 227 Age dependent perishability in two-echelon serial Hans Ziegler inventory systems I. Douglas Moon 239 On eliminating vertices from a tree Hokey Min 243 The dynamic expansion and relocation of capacitated public facilities: a multi-objective approach Rajan Batta and Lloyd A. Leifer 253 On the accuracy of demand point solutions to the planar, Manhattan metric, p-median problem, with and without barriers to travel Amiya K. Chakravarty and 263 Optimal multi-product inventory grouping for co-G. E. Martin ordinated periodic replenishment under stochastic demand Amiya K. Chakravarty and 271 An optimal joint buyer-seller discount pricing model G. E. Martin

G. Brière and M. L. Chaudhry

283 Computational analysis of single-server bulk-arrival queues $M^X/G/1$ Joti L. Jain and Winfried K. Grassmann

293 Numerical solution for the departure process from the GI/G/1 queue

Note

Wilfred Candler

297 A linear bilevel programming algorithm: a comment

I Corrigendum

NUMBER 4

	i	Softstrip® data strip containing the table of contents of this issue
	iii	Editorial—Mr Maxwell's contribution to operations research
H. Arsham and D. Dianich	299	Consumer buying behavior and optimal advertising strategy: the quadratic profit function case
Rudolf Vetschera	311	An interactive outranking system for multi-attribute decision making
Robert A. Russell and Paul E. Challinor	323	Effective methods for petroleum tank truck dispatching
Gary R. Reeves, Kenneth D. Lawrence, Sheila M. Lawrence and Juan J. Gonzalez	333	A multiple criteria approach to aggregate industrial capacity expansion
Jeffrey L. Ringuest	341	Substitute derivatives in unconstrained optimization: a comparison of finite difference and response surface approximations
Marvin D. Troutt and Subhasis Datta	353	Using nonlinear regression procedures for approximate function optimization
Joseph R. Murray and W. David Kelton	357	The transient behavior of the $M/E_{\it k}/2$ queue and steady-state simulation
P. C. Kumar	369	A conceptual decision model for impact analysis of industry regulation: a MILP approach
K. Belling-Seib, P. Mevert and Chr. Müller	381	Network flow problems with one side constraint: a comparison of three solution methods

NUMBER 5

i Softstrip® data strip containing the table of contents of this issue Hideaki Yamashita and 395 An approximation method for line production rate of Shigemichi Suzuki a serial production line with a common buffer Huan Neng Chiu and 403 An optimal lot-sizing model for multi-stage Tsong Ming Lin series/assembly systems J. J. Júdice and 417 An experimental investigation of enumerative A. M. Faustino methods for the linear complementarity problem Robert L. Nydick Jr and 427 A computational evaluation of optimal solution value estimation procedures Howard J. Weiss Ho Woo Lee 441 M/G/1 queue with exceptional first vacation Rowena Añonuevo and 447 Automated estimation and variance reduction via control variates for infinite-horizon simulations Barry L. Nelson Mohamed S. A. Osman, 457 An algorithm for decomposition coordination of large Aly K. El-Ariny and scale convex programming problems Talaat H. M. Refaat R. S. Chang and R. C. T. Lee On a scheduling problem where a job can be executed only by a limited number of processors Serge Garceau, Muhittin Oral 479 The influence of data-presentation mode on strategic and R. Joel Rahn decision-making performance

NUMBER 6

of this issue

I Softstrip® data strip containing the table of contents

Niv Ahituv, Yoav Benjamini A compumetrical approach for analysis and clustering and Magid Igbaria of computer system performance variables Timothy L. Jacobs, 497 Optimal inter-process steel production scheduling Jeff R. Wright and Arthur E. Cobbs Vernon Rego 509 Some explicit formulas for mixed exponential service systems Bernhard Fleischmann Solving a large scale districting problem: a case report and Jannis N. Paraschis Steven R. Irvine A discrete-event simulation of the McDonnell 535 and Reuven R. Levary Douglas Health Information Systems on-line Executive

Gary R. Reeves, 551 Combining earnings forecasts using multiple objective Kenneth D. Lawrence, linear programming Sheila M. Lawrence and John B. Guerard Jr R. Cerulli and M. Gaudioso 561 Mean-variance approach to the management of cyclic deliveries 567 A computational study of efficient shortest path Ming S. Hung and James J. Divoky algorithms Yaxiong Lin 577 A new algorithm for the directed Chinese Postman and Yongchang Zhao C. S. Sung and J. H. Byun 585 Technical note on a parallel-facilities production planning model with capacity constraints